

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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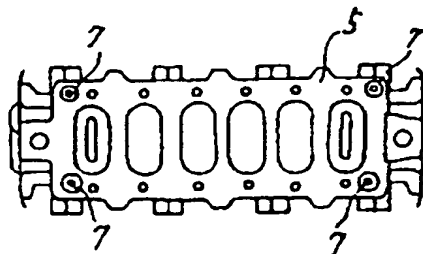
APPLICATION DATE : 29-09-88  
APPLICATION NUMBER : 63246999

APPLICANT : NUCLEAR FUEL IND LTD;

INVENTOR : TERAKADO SHINICHI;

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TITLE : SPACER FOR FUEL ASSEMBLY



ABSTRACT : PURPOSE: To mitigate an increment of a thrusting force caused by a creeping of a channel box by providing protrusions at places close to corner parts of a spacer and by diminishing gap spaces between the inner surface of the channel box and upper ends of the protrusions at those parts.

CONSTITUTION: Protrusions 7 are tapped out at an upper and a lower parts of both left and right ends of a spacer 5 side surface which are close to its corner parts. By utilizing this sort of spacer, a collision of an inner surface of the channel box with an outer surface of the spacer is apt to occur at a place of protrusion parts which are provided closely to the corner part, when a vibration of a fuel channel generates. However, with the protrusions, a gap space between upper parts of the protrusions and the inner surface of the channel box is set to be a narrow space and also an expansion of the channel box accompanied by combustion is limited; therefore, an increment of a thrusting force can be mitigated and a rupture of the fuel assembly can be prevented.

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